

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1.-11. (Cancelled)

Claim 12. (New) A deformable aerodynamic profiled member comprising:

a front profile area;

a rear profile area in an outflow region relative to a flow direction;

shells which bound the profiled element on a pressure side and on a suction side, which shells converge in a rear profile edge; and

d33 piezo actuators for deforming profiled members;

wherein said piezo actuators are arranged on said profiled member with an orientation such that their length changes substantially in the direction of the planes of the shells when acted upon by electricity.

Claim 13. (New) The deformable aerodynamic profiled member according to Claim 12, wherein the d33 piezo actuators are arranged on at least one of the shells, on at least one of the pressure side and the suction side.

Claim 14. (New) The deformable aerodynamic profiled member according to Claim 12, wherein the d33 piezo actuators are integrated into at least one of the shells, on at least one of the pressure side and the suction side.

Claim 15. (New) The deformable aerodynamic profiled member according to Claim 14, wherein the at least one shell has a composite structure.

Claim 16. (New) The deformable aerodynamic profiled member according to Claim 15, wherein at least one flap which is equipped with d33 piezo actuators is hinge-connected to the profiled member, whereby its length expands essentially in the direction of a plane of the flap when acted upon by electricity.

Claim 17. (New) The deformable aerodynamic profiled member according to Claim 16, wherein the at least one flap is hinge-connected to the rear profile edge.

Claim 18. (New) The deformable aerodynamic profiled member according to Claim 17, wherein the d33 piezo actuators comprise stacked piezoelectric elements with electrodes integrated therein.

Claim 19. (New) The deformable aerodynamic profiled member according to Claim 18, wherein an electric field for inducing the d33 effect is supplied via the electrodes.

Claim 20. (New) The deformable aerodynamic profiled member according to Claim 18, wherein the laminar d33 piezo actuators have a thickness of approximately 0.5 to 2.5 mm.

Claim 21. (New) The deformable aerodynamic profiled member according to Claim 20, wherein the laminar d33 piezo actuators have side edge dimensions of approximately 5 to 60 mm.

Claim 22. (New) The deformable aerodynamic profiled member according to Claim 12, wherein the aerodynamic profile is one of a helicopter rotor blade, an aircraft wing, a turbine blade or the like.

Claim 23. (New) The deformable aerodynamic profiled member according to Claim 12, wherein:

the piezo actuator comprises alternating lamina of d33 piezoelectric material and electrically conducting material, arranged in a stacking direction; and

the piezo actuators are oriented relative to said profiled member with the stacking direction coinciding substantially with a desired expansion direction of said profiled member.